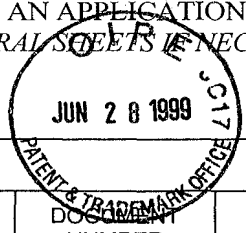


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		Filing Date: May 6, 1999		Group Art Unit:	



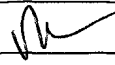
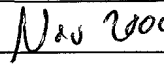
U.S. PATENT DOCUMENTS							
	EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
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FOREIGN PATENT DOCUMENTS								
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION	
							YES	NO
AB								

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)		
AC	W	Wang et al, "Use of a Gene-Targeted Phage Display Random Epitome Library to Map an Antigenic Determinant on the Bluetongue Virus Outer Caspid Protein VP5", <i>J. Immun. Methods</i> , 178: 1-12, 1995
AD	W	Ulmer et al, "DNA Vaccines", <i>Curr. Opin. Immun.</i> , 8: 531-536, 1996
AE	W	Ulmer et al, "ELI's Coming: Expression Library Immunization and Vaccine Antigen Discovery", <i>Trends in Microbiology</i> , 4(5): 169-170, 1996
AF		Miller et al, "Is the Nef Protein of HIV-1 Required for Pathogenesis?", <i>Trends in Microbiology</i> , 4(5): 171, 1996 <i>Not Provided</i>
AG		Barry et al "Protection against Mycoplasma Infection Using Expression-Library Immunozation", <i>Nature</i> , 377:632-635, 1995 <i>Not Provided</i>
AH	W	Pasqualini et al, "Organ Targeting <i>in vivo</i> Using Phage Display Peptide Libraries", <i>Nature</i> , 380" 364-366, 1996
AI	W	Willis et al, "Immunological Properties of Foreign Peptides in Multiple Display on a Filamentous Bacteriophage", <i>Gene</i> , 128: 79-83, 1993
AJ	W	Cortese et al, "Epitope Discovery Using Peptide Libraries Displayed on Phage", <i>TIBTECH</i> , 12:262-266, 1994
AK	W	Lane et al, "Epitope Mapping Using Bacteriophage Peptide Libraries", <i>Curr. Opin. Immun.</i> , 5: 268-271, 1993
AL	W	Baughn et al, "Epitope Mapping of B-Cell Determinants on the 15-Kilodalton Lipoprotein of <i>Treponema Pallidum</i> (Tpp15) with Synthetic Peptides", <i>Infection and Immunity</i> , 64(7): 2457-2466, 1996
AM	W	Dybwad et al, "Identification of New B Cell Epitopes in the Sera of Rheumatoid Arthritis Patients Using a Random Nanopeptide Phage Library", <i>Eur. J. Immunol.</i> , 23: 3189-3193, 1993
AN	W	Dybwad et al, "Structural Characterization of Peptides that Bind Synovial Fluid Antibodies from RA Patients: A Novel Strategy for Identification of Disease-Related Epitopes Using a Random Peptide Library", <i>Clin. Immunol. And Immunopathol.</i> , 75(1): 45-50, 1995
AO		

EXAMINER <i>W</i>	DATE CONSIDERED <i>Nov 1999</i>
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformation and not considered. Include copy of this form with next communication to applicant.

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		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
							YES NO
BB							
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
BC	M	Folgori et al, A General Strategy to Identify Mimotopes of Pathological Antigens Using Only Random Peptide Libraries and Human Sera", <i>The EMBO Journal</i> , 13(9): 2236-2243, 1994					
BD	P	Felici et al, "Selection of Antibody Ligands from a Large Library of Oligopeptides Expressed on a Multivalent Exposition Vector", <i>J. Mol. Biol.</i> , 222: 301-310, 1991					
BE	B	Mougneau et al, "Expression Cloning of a Protective <i>Leishmania</i> Antigen", <i>Science</i> , 268: 563-566, 1995					
BF	M	Ho et al, "Discontinuous Epitopes on gp120 Important in HIV-1 Neutralization", <i>Aids Research and Human Retroviruses</i> , 8(8): 1337-1339, 1992					
BG	M	Thali et al, "Characterization of a Discontinuous Human Immunodeficiency Type 1 gp 120 Epitope Recognized by a Broadly Reactive Neutralizing Human Monoclonal Antibody", <i>J. Virology</i> , pp 6188-6193, 1991					
BH	R	Oravec et al, "β-Chemokine Inhibition of Monocytropic HIV-1 Infection", <i>J. Immunol.</i> , 157: 1329-1332, 1996					
BI	P	Ho et al, "Conformational Epitope on gp 120 Important in CD4 Binding and Human Immunodeficiency Virus Type 1 Neutralization Identified by a Human Monoclonal Antibody", <i>J. Virology</i> , pp 489-493, 1991					
BJ	B	Bachelder et al, Postbinding Functions of CD4 in HIV Infection", <i>Trends in Microbiology</i> , 4(9): 359-363, 1996					
BK	M	Ho et al, "Another Discontinuous Epitope on glycoprotein gp120 that is Important in Human Immunodeficiency Virus Type 1 Neutralization is Identified by a Monoclonal Antibody", <i>Proc. Natl. Acad. Sci. USA</i> , 88: 8949-8952, 1991					
BL	M	Thali et al, "Discontinuous, Conserved Neutralization Epitopes Overlapping the CD4-Binding Region of Human Immunodeficiency Virus Type 1 gp120 Envelope Glycoprotein", <i>J. Virology</i> , pp 5635-5641, 1992					
BM	W	Stemmer, WPC, "Rapid Evolution of a Protein <i>in vitro</i> by DNA Shuffling", <i>Nature</i> , p389, 1994					
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FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
							YES NO
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CD	<i>[initials]</i>	Matsumura et al, "DNA Shuffling Brightens Prospects for GFP", <i>Nature Biotechnol.</i> , 14: 366, 1996					
CE	<i>[initials]</i>	Crameri et al, "Improved Green Fluorescent Protein by Molecular Evolution Using DNA Shuffling", <i>Nature Biotechnol.</i> , 14: 313, 1996					
CF	<i>[initials]</i>	Cortese et al, "Identification of Biologically Active Peptides Using Random Libraries Displayed on Phage", <i>Curr. Opinion in Biotechnol.</i> , 6: 73-80, 1995					
CG	<i>[initials]</i>	Oldenburg et al, "Peptide Ligands for a Sugar-Binding Protein Isolated from a Random Peptide Library", <i>Proc. Natl. Acad. Sci. USA</i> , 89: 5393-5397, 1992					
CH	<i>[initials]</i>	Scott et al, A Family of Concanavalin A-Binding Peptides from a Hexapeptide Epitope Library", <i>Proc. Natl. Acad. Sci. USA</i> , 89: 5398-5402, 1992					
CI	<i>[initials]</i>	Hoess et al, "Identification of a Peptide Which Binds to the Carbohydrate-Specific Monoclonal Antibody", <i>Gene</i> , 128: 43-49, 1993					
CJ	<i>[initials]</i>	Greenwood et al, "Multiple Display of Foreign Peptides on a Filamentous Bacteriophage", <i>J. Mol. Biol.</i> 320: 821-827, 1991					
CK	<i>[initials]</i>	Falt et al, "Epitope Mapping of Six Monoclonal Antibodies Recognizing the <i>Shigella Dysenteriae</i> Type O-Antigenic Repeating Unit Expressed in <i>Escherichia Coli</i> K-12", <i>Microbial. Pathenogenesis</i> , 16: 27-41, 1994					
CL	<i>[initials]</i>	Sioud et al, Characterization of Naturally Occurring Autoantibodies Against Tumour Necrosis Factor-Alpha (TNF- α : <i>in vitro</i> Function and Precise Epitope Mapping by Phage Epitope Library", <i>Clin. Exp. Immunol.</i> , 98: 520-525, 1994					
CM	<i>[initials]</i>	Gao et al, "Multiple Interactive Residues of Recognition", <i>J. Immunol.</i> , 157: 183-188, 1996					
CN	<i>[initials]</i>	Launois et al, "T-Cell Epitope Mapping of the Major Secreted Mycobacterial Antigen Ag85A in Tuberculosis and Leprosy", <i>Infection and Immunity</i> , pp 3679-3687, 1994					
CO	<i>[initials]</i>	Putkonen et al, "Prevention of HIV-2 and SIV _{sm} Infection by Passive Immunization in Cynomolgus Monkeys", <i>Nature</i> , 352: 436-437, 1991					
EXAMINER <i>[initials]</i>				DATE CONSIDERED <i>Nov 2000</i>			
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J. GERSHONIFiling Date:
May 6, 1999

Group Art Unit:

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							YES	NO
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DC	<i>W</i>	de la Cruz et al, "Immunogenicity and Epitope Mapping of Foreign Sequences via Genetically Engineered Filamentous Phage", <i>J. Biological Chem.</i> , 263(9): 4318-4322, 1988						
DD	<i>W</i>	Luzzaga et al, "Mimicking of Discontinuous Epitopes by Phage-Displayed Peptides, I. Epitope Mapping of Human H Ferritin Using a Phage Library of Constrained Peptides", <i>Gene</i> , 1993, pp 51-57						
DE	<i>W</i>	Maliszewski et al, "The CD39 Lymphoid Cell Activation Antigen", <i>J. Immunol.</i> , 153:3574-3583, 1994						
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